

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/575,361ADATE: 04/15/97  
TIME: 15:12:03

INPUT SET: S17017.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

## (1) General Information:

(i) APPLICANT: Chandrasegaran, Srinivasan

(ii) TITLE OF INVENTION: A GENERAL METHOD TO CLONE HYBRID  
RESTRICTION ENDONUCLEASES USING lig GENE

(iii) NUMBER OF SEQUENCES: 35

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Cushman Darby &amp; Cushman L.L.P.

(B) STREET: 1100 New York Avenue, NW, Ninth Floor, East  
Tower

(C) CITY: Washington

(D) STATE: DC

(E) COUNTRY: USA

(F) ZIP: 20005-3918

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US

(B) FILING DATE: 20-DEC-1995

(C) CLASSIFICATION:

## (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Kokulis, Paul N.

(B) REGISTRATION NUMBER: 16,773

(C) REFERENCE/DOCKET NUMBER: PNK/4130/213779/DJP

## (ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 202-861-3000

(B) TELEFAX: 202-822-0944

(C) TELEX: 6714627 CUSH

## (2) INFORMATION FOR SEQ ID NO:1:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 23 amino acids

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47 (B) TYPE: amino acid  
48 (D) TOPOLOGY: linear  
49  
50  
51  
52 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
53  
54 Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu  
55 1 5 10 15  
56  
57 Xaa Xaa His Xaa Xaa Xaa His  
58 20  
59  
60 (2) INFORMATION FOR SEQ ID NO:2:  
61  
62 (i) SEQUENCE CHARACTERISTICS:  
63 (A) LENGTH: 24 amino acids  
64 (B) TYPE: amino acid  
65 (D) TOPOLOGY: linear  
66  
67  
68  
69 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
70  
71 Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu  
72 1 5 10 15  
73  
74 Xaa Xaa His Xaa Xaa Xaa Xaa His  
75 20  
76  
77 (2) INFORMATION FOR SEQ ID NO:3:  
78  
79 (i) SEQUENCE CHARACTERISTICS:  
80 (A) LENGTH: 25 amino acids  
81 (B) TYPE: amino acid  
82 (D) TOPOLOGY: linear  
83  
84  
85  
86 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
87  
88 Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu  
89 1 5 10 15  
90  
91 Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His  
92 20 25  
93  
94 (2) INFORMATION FOR SEQ ID NO:4:  
95  
96 (i) SEQUENCE CHARACTERISTICS:  
97 (A) LENGTH: 24 amino acids  
98 (B) TYPE: amino acid  
99 (D) TOPOLOGY: linear

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100  
101  
102  
103 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
104  
105 Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa  
106 1 5 10 15  
107  
108 Leu Xaa Xaa His Xaa Xaa Xaa His  
109 20  
110  
111 (2) INFORMATION FOR SEQ ID NO:5:  
112  
113 (i) SEQUENCE CHARACTERISTICS:  
114 (A) LENGTH: 25 amino acids  
115 (B) TYPE: amino acid  
116 (D) TOPOLOGY: linear  
117  
118  
119  
120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
121  
122 Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa  
123 1 5 10 15  
124  
125 Leu Xaa Xaa His Xaa Xaa Xaa Xaa His  
126 20 25  
127  
128 (2) INFORMATION FOR SEQ ID NO:6:  
129  
130 (i) SEQUENCE CHARACTERISTICS:  
131 (A) LENGTH: 26 amino acids  
132 (B) TYPE: amino acid  
133 (D) TOPOLOGY: linear  
134  
135  
136  
137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
138  
139 Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa  
140 1 5 10 15  
141  
142 Leu Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His  
143 20 25  
144  
145 (2) INFORMATION FOR SEQ ID NO:7:  
146  
147 (i) SEQUENCE CHARACTERISTICS:  
148 (A) LENGTH: 25 amino acids  
149 (B) TYPE: amino acid  
150 (D) TOPOLOGY: linear  
151  
152

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153  
154 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
155  
156 Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa  
157 1 5 10 15  
158  
159 Xaa Leu Xaa Xaa His Xaa Xaa Xaa His  
160 20 25  
161  
162 (2) INFORMATION FOR SEQ ID NO:8:  
163  
164 (i) SEQUENCE CHARACTERISTICS:  
165 (A) LENGTH: 26 amino acids  
166 (B) TYPE: amino acid  
167 (D) TOPOLOGY: linear  
168  
169  
170  
171 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
172  
173 Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa  
174 1 5 10 15  
175  
176 Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His  
177 20 25  
178  
179 (2) INFORMATION FOR SEQ ID NO:9:  
180  
181 (i) SEQUENCE CHARACTERISTICS:  
182 (A) LENGTH: 27 amino acids  
183 (B) TYPE: amino acid  
184 (D) TOPOLOGY: linear  
185  
186  
187  
188 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
189  
190 Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa  
191 1 5 10 15  
192  
193 Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His  
194 20 25  
195  
196 (2) INFORMATION FOR SEQ ID NO:10:  
197  
198 (i) SEQUENCE CHARACTERISTICS:  
199 (A) LENGTH: 23 amino acids  
200 (B) TYPE: amino acid  
201 (D) TOPOLOGY: linear  
202  
203  
204  
205 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

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PATENT APPLICATION US/08/575,361ADATE: 04/15/97  
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206  
207 Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu  
208 1 5 10 15  
209

210 Xaa Xaa His Xaa Xaa Xaa His  
211 20  
212

213 (2) INFORMATION FOR SEQ ID NO:11:  
214

215 (i) SEQUENCE CHARACTERISTICS:  
216 (A) LENGTH: 24 amino acids  
217 (B) TYPE: amino acid  
218 (D) TOPOLOGY: linear  
219

220

221

222 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
223

224 Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu  
225 1 5 10 15  
226

227 Xaa Xaa His Xaa Xaa Xaa Xaa His  
228 20  
229

230 (2) INFORMATION FOR SEQ ID NO:12:  
231

232 (i) SEQUENCE CHARACTERISTICS:  
233 (A) LENGTH: 25 amino acids  
234 (B) TYPE: amino acid  
235 (D) TOPOLOGY: linear  
236

237

238

239

240 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:  
241

242 Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu  
243 1 5 10 15  
244

245 Xaa Xaa His Xaa Xaa Xaa Xaa His  
246 20 25  
247

248 (2) INFORMATION FOR SEQ ID NO:13:  
249

250 (i) SEQUENCE CHARACTERISTICS:  
251 (A) LENGTH: 24 amino acids  
252 (B) TYPE: amino acid  
253 (D) TOPOLOGY: linear  
254

255

256

257

258 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:  
259

260 Phe Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa  
261

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/575,361A**

DATE: 04/15/97  
TIME: 15:12:30

*INPUT SET: S17017.raw*

Line	Error	Original Text
28	Wrong application Serial Number	(A) APPLICATION NUMBER: US